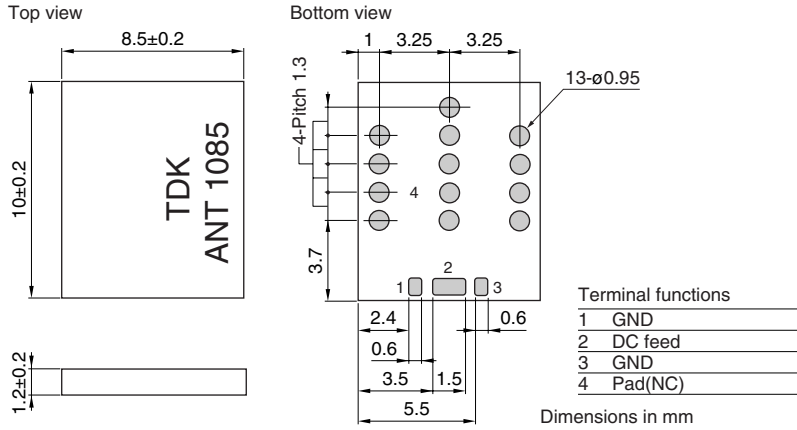


Multilayer Chip Antennas For UWB

Conformity to RoHS Directive

ANT Series ANT1085-4R1

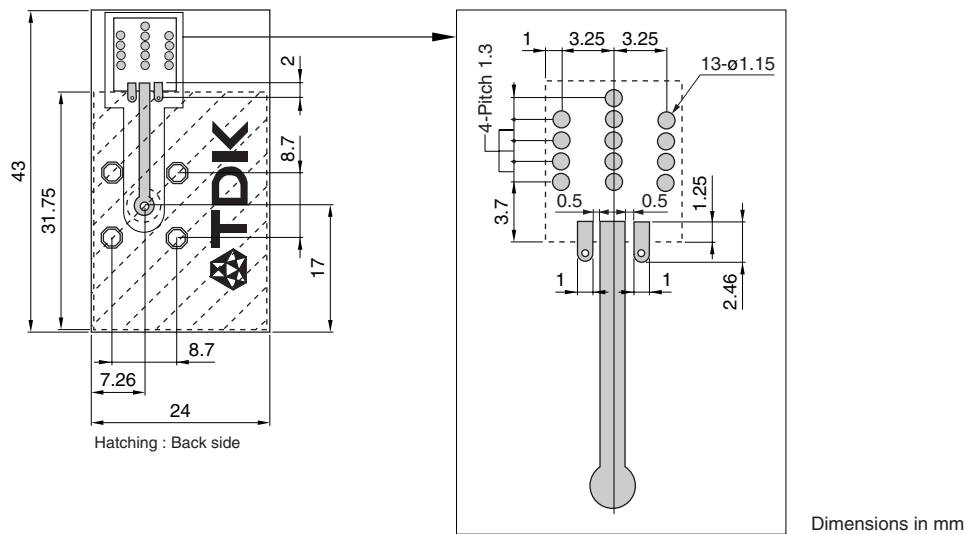
SHAPES AND DIMENSIONS



RECOMMENDED PCB BOARD PATTERNS

PCB material : FR-4

PCB thickness : 0.8 mm

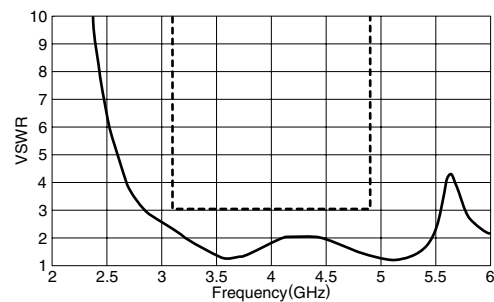


ELECTRICAL CHARACTERISTICS

Part No.	ANT1085-4R1-01A
Operating frequency range	3.1 to 5.2GHz
Polarization	Linear(mixed)
Antenna gain	2.0dBi typ.
Impedance	50Ω
VSWR	3max.
Temperature range	Operating -30 to +85°C
	Storage -40 to +85°C

FREQUENCY CHARACTERISTICS

VSWR



• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

RADIATION PATTERNS

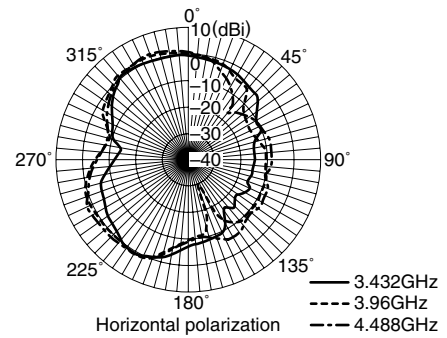
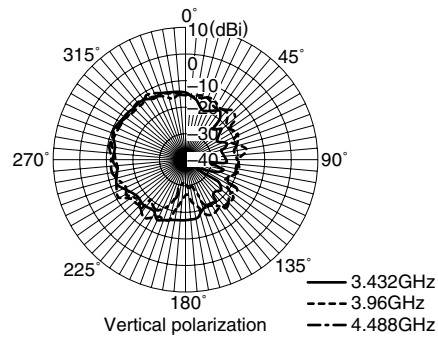
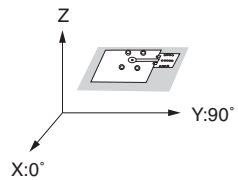
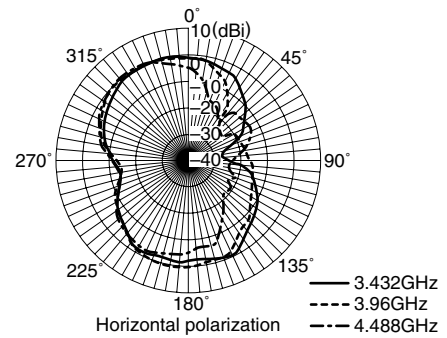
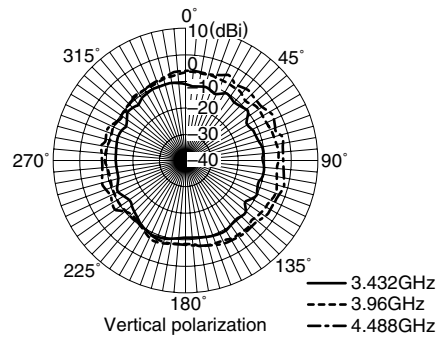
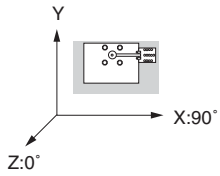
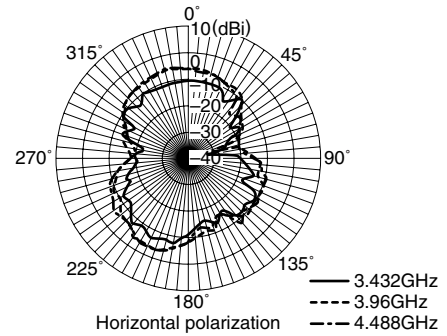
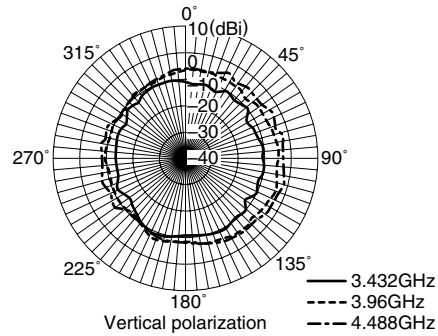
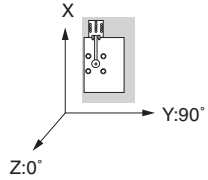
ANT1085-4R1-01A

Directivity angle

Vertical polarization



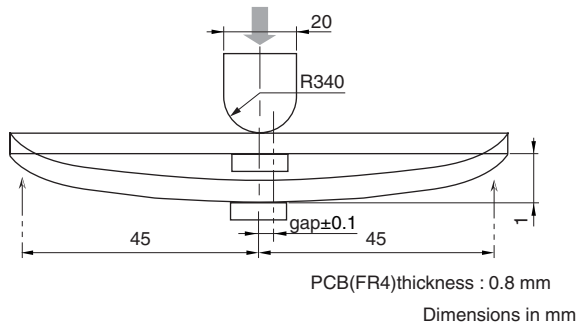
Horizontal polarization



- The radiation pattern is measured by mounting the antenna on 55×20mm TDK STD evaluation base.
- Standard antenna: Standard dipole(Anritsu)
Tx antenna: Horn(TECOM)

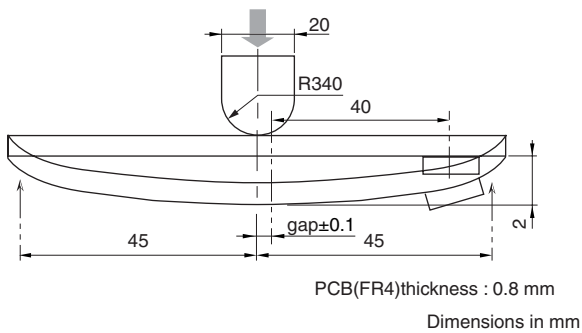
TENSILE STRENGTH OF TERMINAL CENTER MOUNTING

It shall be not broken after a tensile force of 1 mm is applied to the terminal in the direction of axis for 5 ± 1 seconds.



SIDE MOUNTING

It shall be not broken after a tensile force of 2 mm is applied to the terminal in the direction of axis for 5 ± 1 seconds.



The tested antenna is offset by 40 mm from the position where the tensile force is applied.